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EMM

OR

AND

register change sign subscribe

OR

AND

contract subscription CAS

OR

AND

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19900101

20021028

AND

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# PATENT ABSTRACTS OF JAPAN

(11)Publication number : 2002-034012

(43)Date of publication of application : 31.01.2002

(51)Int.Cl. H04N 7/16  
H04H 1/02

(21)Application number : 2000-214559 (71)Applicant : MY TV KK

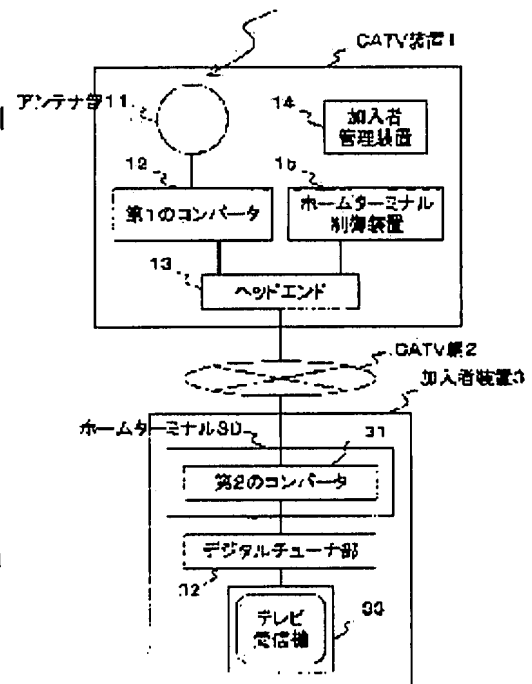
(22)Date of filing : 14.07.2000 (72)Inventor : KOBAYASHI SAKAE  
TSUNODA KANEHISA  
YAMADA MASAO

## (54) CATV EQUIPMENT AND BROADCASTING METHOD

### (57)Abstract:

**PROBLEM TO BE SOLVED:** To provide CATV equipment and a broadcasting method which can control and manage whether a viewer views a pay television broadcast program, when the toll television broadcast program supplied from other television broadcast supplier is supplied via a CATV network.

**SOLUTION:** This CATV equipment, which broadcasts a television broadcast program via CATV network, is provided with a subscriber-managing means for managing subscribers who has signed a contract or viewing the television broadcast programs directly with a television broadcast program supplier, and a home terminal control means for controlling a home terminal for viewing the television broadcast program which terminal the subscriber, has so that the subscriber managed by the subscriber managing means is able to view the television broadcast program.



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# PATENT ABSTRACTS OF JAPAN

(11)Publication number : 2000-224560

(43)Date of publication of application : 11.08.2000

(51)Int.Cl.

H04N 7/16

(21)Application number : 11-023055

(71)Applicant : N II C CABLE MEDIA KK

(22)Date of filing : 29.01.1999

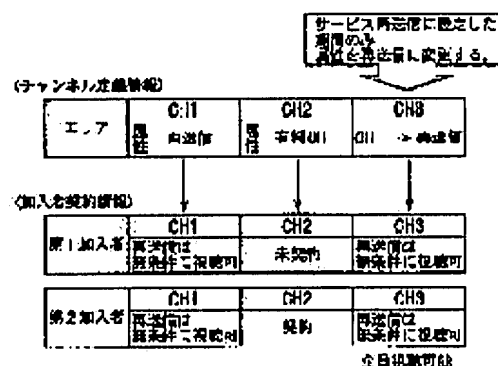
(72)Inventor : HAMADA MASANORI

## (54) SERVICE METHOD BY CATV RE-TRANSMISSION AND ITS HTC

### (57)Abstract:

**PROBLEM TO BE SOLVED:** To permit a CATV businessman to easily attain correspondence without wasting time and without manual aid, to relieve the burden of him and also to permit a CATV subscriber to timely receive its free charge service.

**SOLUTION:** 'Charged' being the attribute of a channel which plural uncontracted subscribers cannot view is converted into the attribute of 're- transmission' which can be viewed by the whole subscribers by a home terminal controller for a finite time. The attribute itself of the channel is automatically changed-over into 're-transmission', the procedure of charge free service is substantially omitted and timely free charge service can be received. In the step, subscriber contract information is not transmitted to the home terminal of the subscriber. Besides, it is specially favorable that the start time and the end time of 're-transmission' are set in the home terminal controller. The single common electronic message of 're-transmission' is transmitted to each subscriber. Moreover, the single electronic mail of 'charged' is transmitted to each subscriber from the controller at the end time.



## LEGAL STATUS

[Date of request for examination]

29.01.1999

[Date of sending the examiner's decision of rejection] 01.05.2001

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[Patent number]

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# PATENT ABSTRACTS OF JAPAN

(11)Publication number : 09-298732

(43)Date of publication of application : 18.11.1997

(51)Int.Cl.

H04N 7/16  
H04H 1/02

(21)Application number : 08-130798

(71)Applicant : NEC ENG LTD

(22)Date of filing : 26.04.1996

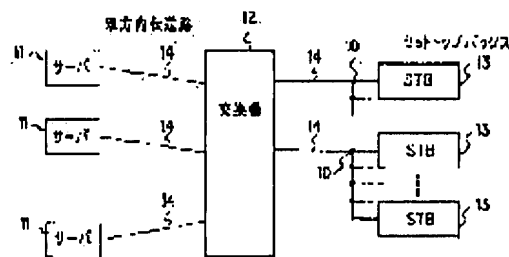
(72)Inventor : OBA TOSHIYUKI

## (54) CATV SYSTEM

### (57)Abstract:

**PROBLEM TO BE SOLVED:** To provide the cable television (CATV) system in which various services in response to the charge paid by a subscriber.

**SOLUTION:** A similar service is served to every subscriber even from a set top box (STB) 13 of any subscriber terminal in the same system by allowing a server 11 to check a registration state of the terminal subscribers through a simple entry operation by the subscriber in various pay contract data services or charge integration services. The server 11 is provided with an accessible subscriber data file especially and a software for a personal computer is prepared for a service menu and the STB 13 of the subscriber terminal is connected to a key board to use the STB 13 as a personal computer.



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[Date of request for examination]

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[Date of registration]

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decision of rejection]

[Date of extinction of right]

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# PATENT ABSTRACTS OF JAPAN

(11)Publication number : 09-215183

(43)Date of publication of application : 15.08.1997

(51)Int.Cl.

H02H 7/20  
H01R 13/719  
H04N 7/16

(21)Application number : 08-335907

(71)Applicant : MEGURO DENKI SEIZO KK

(22)Date of filing : 16.12.1996

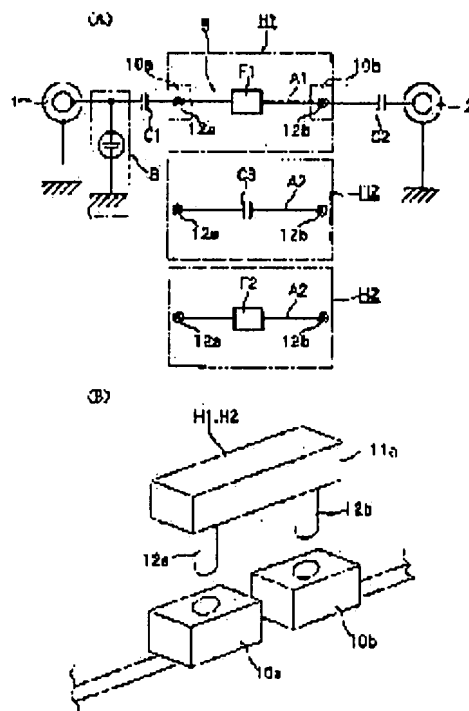
(72)Inventor : NAGAHISA MINORU  
MISAWA TADAYOSHI

## (54) PROTECTOR FOR CATV SUBSCRIBER

### (57)Abstract:

**PROBLEM TO BE SOLVED:** To easily form a protector for one- or two-way communication in accordance with the subscribing contract of a subscriber by installing a protector for CATV subscriber of the same specification having a communication disconnecting section to both one-and two-way CATV subscribers.

**SOLUTION:** A disconnecting section 5 which disconnects signal lines from each other is provided between a line wire terminal 1 and an extension terminal 2 and a first socket 10a which is connected to the terminal 1 and a second socket 10b which is connected to the terminal 2 are respectively provided at both ends of the section 5. A one-way communication unit H1 and a two-way communication unit H2 having connector structures are formed and either a one-way communication line or two-way communication lines is constituted by selectively connecting the units H1 and H2 between the sockets 10a and 10b through a connector in disconnectable states. At the same time, a lightning circuit B is connected between the first socket 10a and the line wire terminal 1.



## LEGAL STATUS

[Date of request for examination] 16.12.1996

[Date of sending the examiner's decision of rejection] 08.02.2000

[Kind of final disposal of application other than the examiner's decision of rejection or application converted registration]

[Date of final disposal for application]

[Patent number]

[Date of registration]

[Number of appeal against examiner's decision of rejection]

[Date of requesting appeal against examiner's decision of rejection]

[Date of extinction of right]



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# PATENT ABSTRACTS OF JAPAN

(11)Publication number : 06-086278

(43)Date of publication of application : 25.03.1994

(51)Int.Cl.

H04N 7/16  
H04B 1/06  
H04H 1/02

(21)Application number : 04-235005

(71)Applicant : SHARP CORP

(22)Date of filing : 03.09.1992

(72)Inventor : ITAGAKI KENJI

## (54) HOME TERMINAL SYSTEM FOR CATV

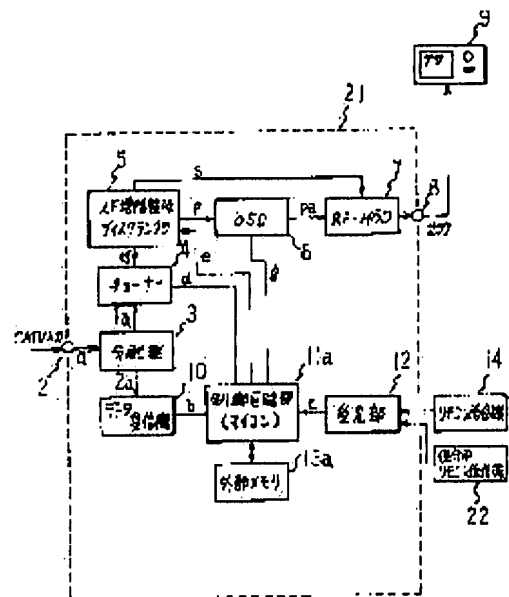
### (57)Abstract:

**PURPOSE:** To prevent a trouble with a subscriber when reception is invalid by providing a means which releases and resets a CH contract at the time of a remote control transmission for maintenance.

**CONSTITUTION:** At the time of the microcomputer operation of a control circuit part 11a, when received data are CH contract data, and a 1CH is contracted, the 1CH of an outside memory 13a is contracted. Next, whether or not the remote control received data are a CH tuning KEY is checked, and when the remote control received data are the CH tuning KEY, tuned nCH data are outputted to a tuner 4, and the contract information of the tuned CH is read from the outside memory 13a.

When the read data are the contract data, a de-scramble

4 is turned on. When the remote control received data are not the CH tuning KEY, whether or not the remote control received data are the contract change KEY of a remote control transmitter 22 for maintenance is checked. When the remote control received data are the contract change KEY, the contract information of a tuned nCH is read from the memory 13a, and the tuned CH and the contract information are displayed on the screen of a television receiver 9.



## LEGAL STATUS

[Date of request for examination] 26.07.1996

[Date of sending the examiner's decision of rejection]

[Kind of final disposal of application other than the examiner's decision of rejection or application converted registration]

[Date of final disposal for application]

[Patent number] 2829200

[Date of registration] 18.09.1998

[Number of appeal against examiner's decision of rejection]

[Date of requesting appeal against examiner's decision of rejection]

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# PATENT ABSTRACTS OF JAPAN

(11)Publication number : 05-304668

(43)Date of publication of application : 16.11.1993

(51)Int.Cl. H04N 7/16  
H04H 1/00

(21)Application number : 04-095100 (71)Applicant : NEC CORP

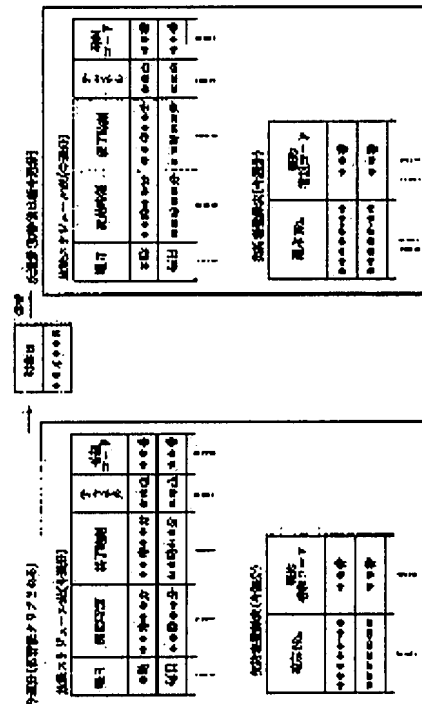
(22)Date of filing : 15.04.1992 (72)Inventor : YAMAMOTO TOMOKO

## (54) PAY PROGRAM CONTROL SYSTEM FOR CATV

### (57)Abstract:

**PURPOSE:** To reduce the burden of broadcasting schedule register and to enable a register before the change date at the time of changing programs.

**CONSTITUTION:** The pay program control system is provided with the broadcasting schedule of pay programs and terminals receiving a control signal representing a contractor for each pay program and receiving and demodulating video and voice signals. The system is provided with a register means capable of registering both the broadcasting schedule of pay programs for this week and the broadcasting schedule of pay programs for the next week. At the normal time, the schedule for this week is repeated and at the time of changing programs, the date of change and the schedule for the next week are registered in advance to automatically switch the schedule to the one for the next week.



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# PATENT ABSTRACTS OF JAPAN

(11)Publication number : 05-300512

(43)Date of publication of application : 12.11.1993

(51)Int.Cl.

H04N 7/16

(21)Application number : 04-130115

(71)Applicant : NEC CORP

N I I C CABLE MEDIA KK

(22)Date of filing : 23.04.1992

(72)Inventor : HASEGAWA YOSHIKO

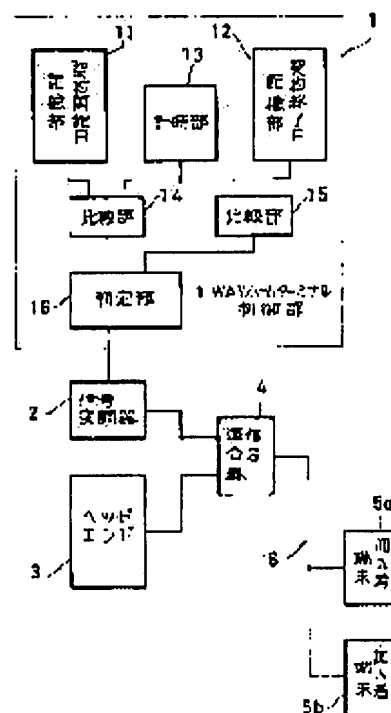
YAMAJI KENJI

## (54) CHARGED CHANNEL REGISTER SYSTEM FOR CATV SUBSCRIBER TERMINAL

### (57)Abstract:

PURPOSE: To register a long-term contract covering several months and the per-day contracts with a single input operation.

CONSTITUTION: A contract starting date storage part 11 and a contract ending date storage part 12 store the contract starting and ending dates respectively. A comparing part 14 compares the contract starting date stored in the part 11 with the present date of a clock part 13 to check whether the present date is later than the contract starting date or not. A comparing part 15 compares the contract ending date stored in the part 12 with the present date of the part 13 to check whether the present date is earlier than the contract ending date or not. Then a deciding part 16 decides whether the present date is included or not in the contract term of each CATV subscriber terminal based on the results of both parts 14 and 15. If so, the part 16 transmits the identification information on each CATV subscriber terminal and the contract contents to the subscriber terminals 5a and 5b respectively as the contract information.



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[Date of request for examination]	28.03.1996
[Date of sending the examiner's decision of rejection]	
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[Date of final disposal for application]	
[Patent number]	3076142
[Date of registration]	09.06.2000
[Number of appeal against examiner's decision of rejection]	
[Date of requesting appeal against examiner's decision of rejection]	
[Date of extinction of right]	09.06.2003

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# PATENT ABSTRACTS OF JAPAN

(11)Publication number : 05-176318

(43)Date of publication of application : 13.07.1993

(51)Int.Cl.

H04N 7/16

H04N 5/44

H04N 7/10

(21)Application number : 03-355756

(71)Applicant : SHARP CORP

(22)Date of filing : 20.12.1991

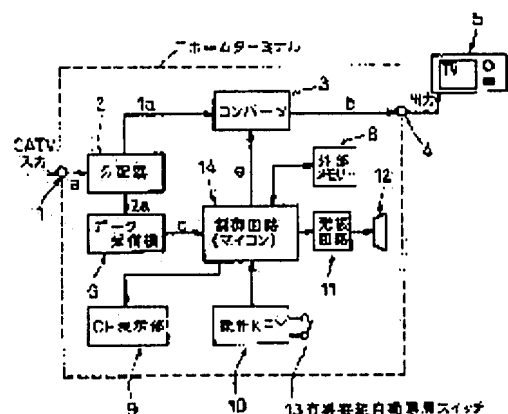
(72)Inventor : ITAGAKI KENJI

## (54) PROGRAM TUNING SYSTEM FOR CATV HOME TERMINAL

### (57)Abstract:

PURPOSE: To automatically attain turning at the time of broadcasting a contracted chargeable program by providing this program turning system with a control circuit for automatically switching a current program to a detected chargeable program at the time of detecting input data, and at the time of detecting an end signal, returning the changed channel to the original channel.

CONSTITUTION: When received data indicate the start of a chargeable program, data stored in an external memory 8 are compared with the received data to check the data, and when the program is a contracted program, a buzzer 12 is turned on and whether a chargeable program automatic turning switch 13 is ON or not is checked. When the switch 13 is ON as the result of the check, a channel broadcasting the chargeable program is selected. When received data indicate the end of the chargeable program, the buzzer 12 is turned off when it is ON. When the program broadcasted up to now is viewed, the preceding viewing channel stored in a CH memory is selected. Consequently contracted programs can be prevented from being missed.



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**IPC** --- e.g. D01B7/04 A01C11/02

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**Applicant, Title of invention, Abstract** --- e.g. computer semiconductor

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**Date of publication of application** --- e.g. 19980401 - 19980405

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**IPC** --- e.g. D01B7/04 A01C11/02

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**Date of publication of application** --- e.g. 19980401 - 19980405

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**IPC** --- e.g. D01B7/04 A01C11/02

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**IPC** --- e.g. D01B7/04 A01C11/02

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No.	Publication No.	Title
1.	<u>2002 - 118815</u>	REMOTE CONTROL SYSTEM FOR DIGITAL BROADCAST RECEIVER
2.	<u>2001 - 352531</u>	LIMITED RECEPTION SYSTEM FOR CABLE TELEVISION, ITS TRANSMITTER AND RECEIVER
3.	<u>2001 - 119357</u>	PROCESSOR FOR RELATED INFORMATION IN LIMITED RECEPTION SYSTEM
4.	<u>2000 - 059752</u>	DIGITAL TELEVISION BROADCASTING RECEIVER
5.	<u>11 - 196401(1999)</u>	CLIENT MANAGEMENT SYSTEM AND MANAGEMENT METHOD
6.	<u>11 - 196400(1999)</u>	MANAGEMENT SYSTEM AND MANAGEMENT METHOD FOR RECEPTION CONTRACT INFORMATION AND RECEIVER
7.	<u>11 - 041586(1999)</u>	DIGITAL BROADCAST SYSTEM
8.	<u>10 - 191302(1998)</u>	DIGITAL SATELLITE BROADCAST RECEIVER

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# PATENT ABSTRACTS OF JAPAN

(11)Publication number : 2002-118815

(43)Date of publication of application : 19.04.2002

(51)Int.Cl. H04N 5/7826  
H04B 1/04  
H04H 1/00  
H04H 1/02  
H04M 11/00  
H04N 5/00  
H04N 5/44  
H04N 5/445  
H04N 5/76  
H04N 7/173  
H04Q 9/00

(21)Application number : 2000-306990 (71)Applicant : SHARP CORP  
(22)Date of filing : 06.10.2000 (72)Inventor : IWASE TOSHIHIRO

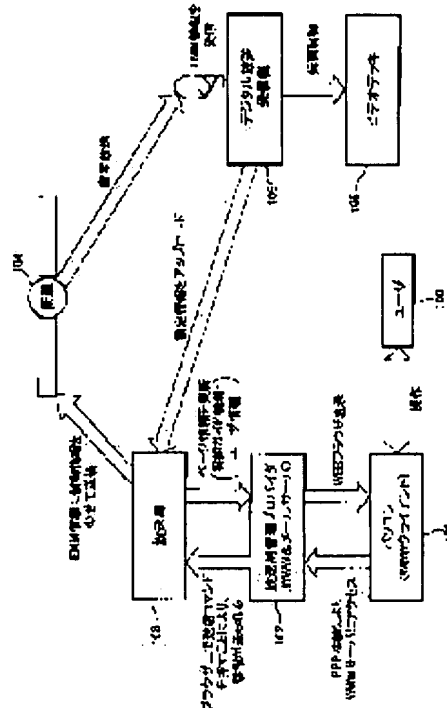
## (54) REMOTE CONTROL SYSTEM FOR DIGITAL BROADCAST RECEIVER

### (57)Abstract:

**PROBLEM TO BE SOLVED:** To provide a remote control system that accesses a WWW page managed by a broadcast station, uses a WWW browser to make reservation and various setting operations and broadcasts control information to each digital broadcast receiver together with a broadcast program so as to control each receiver.

**SOLUTION:** A user 100 operates a personal computer 101 to connect it to a provider 102 managed by a broadcast station, accesses a page for controlling the digital broadcast receiver, displays a WWW browser, and makes program reservation and various setting processing. The personal computer 101 transmits control information obtained resulting from the program

reservation operations and setting operations in this way to the broadcast station 103 via the provider 102. The broadcast station 103 superimposes the control information on EMM (Entitlement Management Message) information and transmits the resulting information to a



satellite 104, and the satellite 104 broadcasts the information to each digital broadcast receiver 105 of each user. The digital broadcast receiver 105 receiving the EMM information acquires the reservation operations and the setting operation information from the EMM information and updates internally set information of the digital broadcast receiver 105 according to the acquired information.

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[Date of request for examination] 17.01.2003

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[Date of final disposal for application]

[Patent number] 3719923

[Date of registration] 16.09.2005

[Number of appeal against examiner's decision of rejection]

[Date of requesting appeal against examiner's decision of rejection]

[Date of extinction of right]



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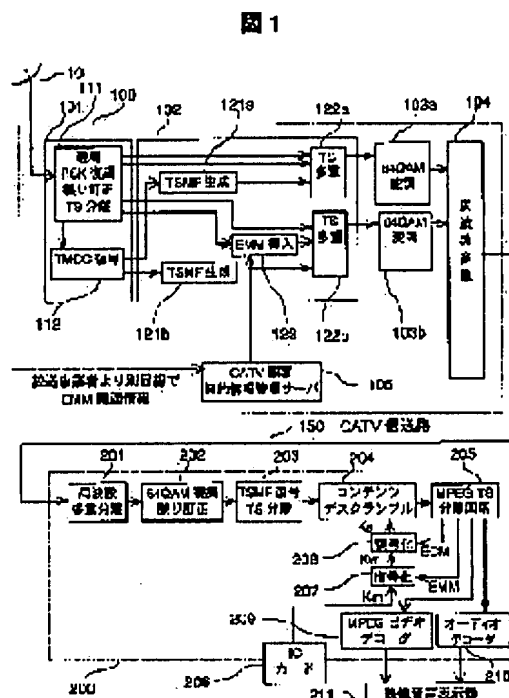
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(11)Publication number : 2001-352531  
(43)Date of publication of application : 21.12.2001

(21)Application number : 2000-175548 (71)Applicant : HITACHI LTD  
(22)Date of filing : 07.06.2000 (72)Inventor : NODA TSUTOMU  
SHIROSUGI TAKATOSHI  
YAMASHITA TOMOHITO  
YAMADA TORU

(57)Abstract:

**SOLUTION:** A transmitter 100 of a CATV station demultiplexes a BS digital broadcast program received by a satellite broadcast antenna 10 into transport streams(TS), applies required processing to them, multiplexes them and retransmits the multiplexed transport stream through a CATV channel to a receiver 200 that is a contractor. In this case, a CATV customer contract information management server 105 adds individual information EMM including the key information of a limited reception system of a digital broadcast to one TS and they are multiplexed. The receiver side uses a TS



demultiplex the EMM, a decoder 207 decodes a work key Kw by using a master key Km of an IC card 206, and the work key is used to decode a scramble key Ks. Thus, each CATV station can grasp the management of BS digital broadcast viewers via the CATV by a small installation investment.

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## PATENT ABSTRACTS OF JAPAN

(11)Publication number : 2001-119357

(43)Date of publication of application : 27.04.2001

(51)Int.Cl.	H04H 1/00
	H04L 9/08
	H04N 7/16

(21)Application number : 11-294575 (71)Applicant : NIPPON HOSO KYOKAI <NHK>

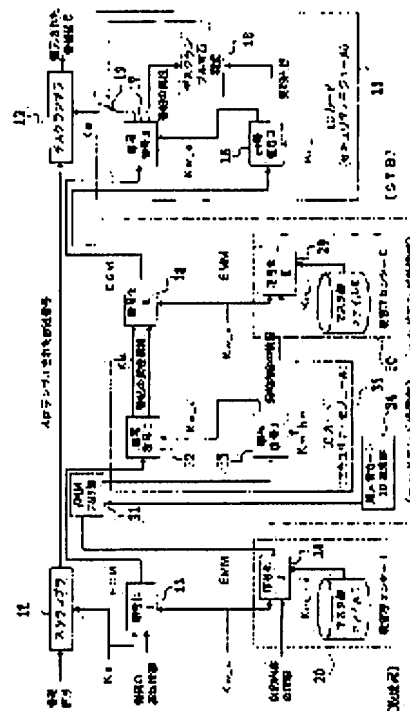
(22)Date of filing : 15.10.1999 (72)Inventor : NANBA SEIICHI

(54) PROCESSOR FOR RELATED INFORMATION IN LIMITED RECEPTION SYSTEM

(57)Abstract:

**PROBLEM TO BE SOLVED:** To safely transfer information used for the control of limit reception when receiving a broadcast signal transmitted through the broadcast transmission path of a satellite broadcast wave by using CAS and re-transmitting the broadcast signal through the broadcast transmission path of CATV by using different CAS.

SOLUTION: The program signal of satellite broadcast is scrambled in a scrambler 11 and is transferred to STB without being descrambled. ECM and EMM are transferred to STB through a head end. Related information is ciphered by an S-CAS system on the broadcast station side of satellite broadcast. Obtained ECM and EMM are decoded by ciphering/decoding means 32 and 33 in the head end reception part of CATV. Ciphering means 28 and 29 decipher them by a C-CAS system and transfer them to STB. Ciphering methods are made to be different for key information common to all the receivers and individual information for each of the receivers from the viewpoint of security.



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[Date of request for examination] 15.02.2005

[Date of sending the examiner's decision of rejection] 29.05.2007

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[Date of registration]

[Number of appeal against examiner's decision of rejection] 2007-018143

[Date of requesting appeal against examiner's decision of rejection] 28.06.2007

[Date of extinction of right]

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# PATENT ABSTRACTS OF JAPAN

(11)Publication number : 2000-059752

(43)Date of publication of application : 25.02.2000

(51)Int.Cl.

H04N 7/16  
G04G 15/00  
H04N 5/44  
H04N 5/63  
H04N 7/08  
H04N 7/081

(21)Application number : 10-229103

(71)Applicant : TOSHIBA CORP

(22)Date of filing : 13.08.1998

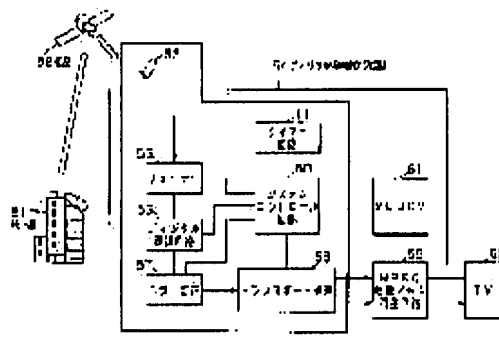
(72)Inventor : KIKUTA YUKIO

## (54) DIGITAL TELEVISION BROADCASTING RECEIVER

### (57)Abstract:

**PROBLEM TO BE SOLVED:** To surely receive EMM information and also to reduce power consumption drastically by forcedly turning on the operating power of a digital television signal receiving means during reception standby time set by a timer means, and receiving and reproducing personal information data, but by setting the non-operation state where the operating power of the digital television signal receiving means is turned off except for the reception standby time.

**SOLUTION:** A timer circuit 11 receives EMM information transmitted from a ground station 51 via a broadcasting satellite 52 and detects the transmission cycle of the EMM information demodulated by transport processing 58 which is under the control of a system control circuit 60. Next, the timer circuit 11 uses the detected transmission cycle to set reception waiting time for EMM information. Then, the timer circuit 11 is set to an operation state where power is on within the reception waiting time, receives and fetches EMM information addressed to itself in one transmission cycle of repeatedly transmitted EMM information, and in the other transmission cycles, is set to non-operation state with power off.





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[Date of registration]

[Number of appeal against examiner's decision of rejection]

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# PATENT ABSTRACTS OF JAPAN

(11)Publication number : 11-196401

(43)Date of publication of application : 21.07.1999

(51)Int.Cl. H04N 7/16  
H04H 1/00  
H04N 7/20

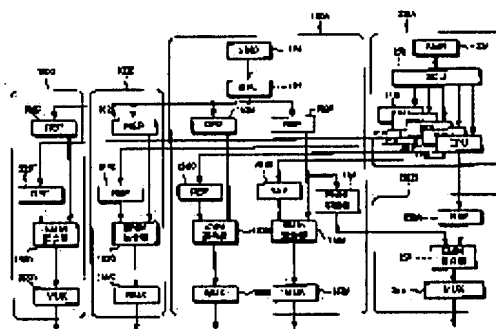
(21)Application number : 09-360285 (71)Applicant : SONY CORP  
(22)Date of filing : 26.12.1997 (72)Inventor : SHIROMA MAKOTO  
MURAI SUMIO

## (54) CLIENT MANAGEMENT SYSTEM AND MANAGEMENT METHOD

### (57)Abstract:

**PROBLEM TO BE SOLVED:** To make it possible to surely receive reception contract information when an IRD is commonly used in services of plural digital satellite broadcastings.

**SOLUTION:** An EMM packet from a site 2000 of the second satellite management company is transmitted to the side of sites 100A to 100C of the first satellite management company. In the sites of the first satellite management company, the EMM packet of the first satellite management company that are repeated by repeaters 152A to 152D and the EMM packet of the second satellite management company are transmitted from the site 200 of the second satellite management company and are repeated by the first satellite operation company's repeaters 252B to 252E are mixed in EMM mixers 153A to 153D. In the site of the second satellite management company, the EMM packet of the second satellite management company that is repeated by a repeater 252A and the EMM packet of the first satellite management company that is transmitted from the second satellite management company by way of an EMM repeater 153 from the site 100A of the first satellite management company are mixed in an EMM mixer 253. Thus, even if both satellites are received, reception contract information can surely be received.



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[Patent number] 3876511

[Date of registration] 10.11.2006

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(11)Publication number : 11-196400

(43)Date of publication of application : 21.07.1999

(51)Int.Cl.

H04N 7/16  
G06K 17/00  
G06K 19/00  
H04H 1/00

(21)Application number : 09-360284

(71)Applicant : SONY CORP

(22)Date of filing : 26.12.1997

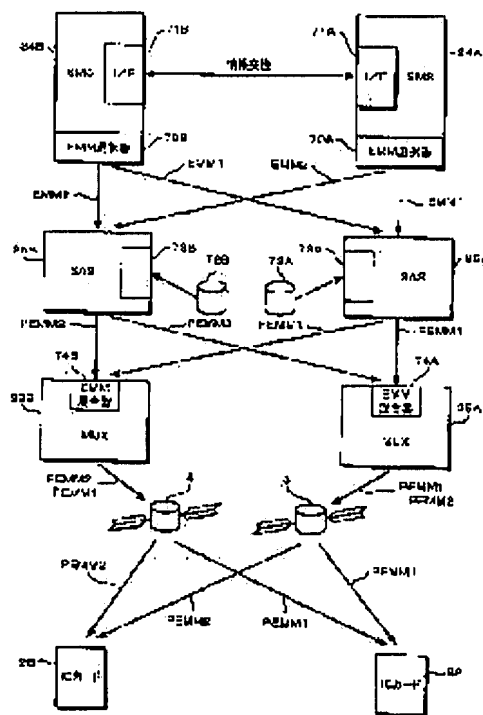
(72)Inventor : YOSHIDA HIROYUKI  
SHIROMA MAKOTO

## (54) MANAGEMENT SYSTEM AND MANAGEMENT METHOD FOR RECEPTION CONTRACT INFORMATION AND RECEIVER

(57)Abstract:

PROBLEM TO BE SOLVED: To allow the receiver to use a common IC card to receive broadcast programs of a plurality of satellite operation companies.

SOLUTION: An EMM selector 70A of a 1st broadcast site discriminates it that reception contract information from a customer management system 24A is to be managed by the 1st broadcast site or a 2nd broadcast site. When the reception contract is to be managed by the 1st broadcast site, the information is processed by a 1st broadcast customer management system 24A, and when the information is to be managed by the 2nd broadcast side, the selector 70A sends the information to the 2nd broadcast site. An EMM selector 70B of the 2nd broadcast site discriminates it that reception contract information from a customer management system 24B is to be managed by the 1st broadcast site or the 2nd broadcast site. When the reception contract is to be managed by the 2nd broadcast site, the information is processed by a 2nd broadcast customer management system 25B, and when the information is to be managed by the 1st broadcast side, the selector 70 sends the information to the 1st broadcast site. The reception contract information is identified based on high-order bits of a card ID.



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# PATENT ABSTRACTS OF JAPAN

(11)Publication number : 11-041586

(43)Date of publication of application : 12.02.1999

(51)Int.Cl.

H04N 7/173  
G06F 11/22  
H04H 1/00  
H04L 12/18  
H04N 7/00

(21)Application number : 09-193755

(71)Applicant : SONY CORP

(22)Date of filing : 18.07.1997

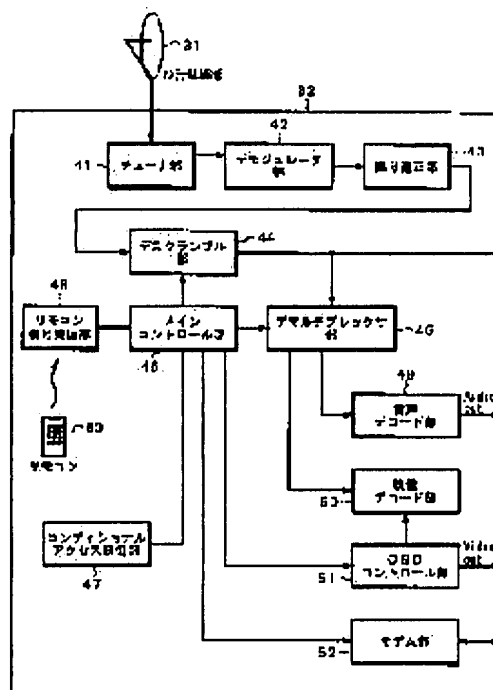
(72)Inventor : YOSHINOBU HITOSHI

## (54) DIGITAL BROADCAST SYSTEM

### (57)Abstract:

**PROBLEM TO BE SOLVED:** To notify the executed result of a self-diagnostic program while dispersing time based on the instruction at the side of broadcast transmission by simultaneously distributing a packet for executing prescribed processing from the broadcast transmission side to a reception terminal and notifying the result of processing from the reception terminal to a terminal managing station.

**SOLUTION:** The self-diagnostic program is sent to a reception terminal (IRD) 32 of an object while using an EMM packet on the satellite broadcastd transmission side. A main control part 46 of the IRD 32 executes the self-diagnostic program and records the executed result onto an IC card as a history. The instruction to notify the executed result (history) of the self-diagnostic program to the terminal managing station is received by the EMM packet. The main control part 46 calculates the time of notice by generating a pseudo random number while using a coefficient designated by the packet. At the time of notice, the history recorded on the IC card is notified to the designated transmission destination (terminal managing station).



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(11)Publication number : 10-191302

(43)Date of publication of application : 21.07.1998

(51)Int.Cl.

H04N 7/167  
H04H 1/00  
H04L 9/08  
H04L 9/14  
H04N 5/91

(21)Application number : 08-351554

(71)Applicant : MATSUSHITA ELECTRIC IND CO  
LTD

(22)Date of filing :

27.12.1996

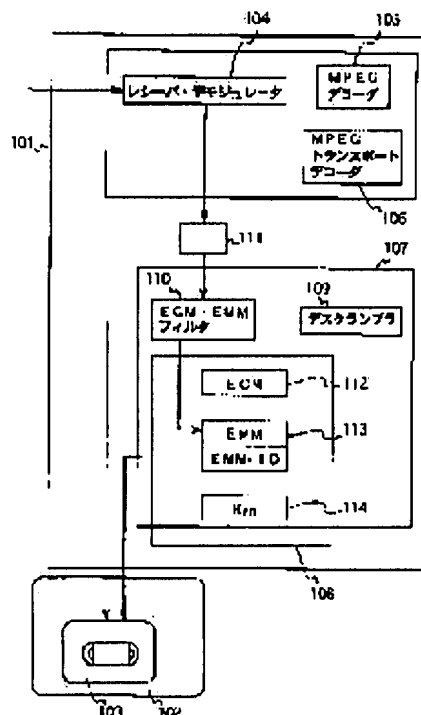
(72)Inventor : WATANABE KAZUHIRO

## (54) DIGITAL SATELLITE BROADCAST RECEIVER

### (57)Abstract:

**PROBLEM TO BE SOLVED:** To allow the user to be able to view a program after descramble even when a long time elapses after the program is recorded by storing separately intermediate key information that is separated from received data, other common key information and scramble program data together with intermediate key ID information.

**SOLUTION:** EMM(Entitlement Management Message) that is multiplexed on a satellite wave is transmitted. The EMM is extracted and ECM(Entitlement control Message) program data are filtered by an ECM.EMM filter 110 and stored in a program storage means 102. In the case of recording, an EMM-ID corresponding to the EMM is stored in a header area of an ECM program data storage area 113 in the recording. In the case of reproducing recording program data, an IC card 108 selects the EMM to which a matched EMM-ID is assigned from a list in the EMM storage area 113 with the clue of the received EMM-ID.



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